IN THE CLAIMS

1.   (currently amended) A storage system that is ~~connect~~coupled to at least one computer, the storage system comprising:

a first interface control device that receives from the at least one computer an access request designating identification information of a file;

a second interface control device ~~connect~~coupling to the first interface control device; and

a plurality of disks ~~connect~~coupling to the second interface control device, wherein the plurality of disks include at least one first disk, and at least one second disk, the first disk and the second disk ~~being~~ having different kinds of interfaces, the first interface control device decides based on identification information of a file received from the computer a storage position of data of the file designated by the identification information of a file within the plurality of disks, and

the second interface control device controls to store the data of the file designated by the identification information of a file at the storage position decided by the first interface control device.

2.   (currently amended) A storage system according to claim 1, wherein the at least one first disk is a Fibre Channel disk equipped with a Fibre Channel type interface, and the at least one second disk is a serial ATA disk equipped with a serial ATA type interface.

3.   (currently amended) A storage system according to claim 1, further

comprising a memory, a memory controller for controlling the memory, a plurality of

first interface control devices each being ~~connect~~coupled to the memory controller,

and a plurality of second interface control devices each being ~~connect~~coupled to the

memory controller,

wherein one of the first interface control devices receives identification

information of a file and data of the file from the computer, and stores the data of the

file in the memory, and

one of the second interface control devices that is ~~connect~~coupled to one of

the disks that is to store the data of the file controls to store the data of the file

retained in the memory in the one of the disks according to the storage position of

the data of the file decided by the first interface control device.

4.   (original) A storage system according to claim 1, wherein

a first storage region exists in the at least one first disk,

a second storage region exists in the at least one second disk, and

the first interface control device sets up a first file system in the first storage

region, and a second file system in the second storage region.

5.   (original) A storage system according to claim 4, wherein the first

interface control device decides, according to static property that is predetermined

property and dynamic property that is property that changes with passage of time

since a point of time when the file is created, as to which one of the first storage

region and the second storage region to store the data of the file indicated by the

identification information.

6.   (original) A storage system according to claim 5, wherein the first interface control device controls to migrate data of a file stored in one of the first storage region and the second storage region to the other storage region according to a change in the dynamic property, and changes identification information that specifies the file and information indicative of correlation between the file and the storage position.

7.   (original) A storage system according to claim 6, wherein the static property includes at least one of information that specifies a kind of the file, information that specifies a time when the file is created, and information that specifies a value of the file, and the dynamic property includes at least one of information concerning an access property to the file, and information concerning passage of time elapsed since the file is created.

8.   (currently amended) A storage system that is ~~connect~~coupled to a computer, the storage system comprising:

    at least one first interface control device that ~~connect~~couples to the computer and receives from the computer an access request containing identification information of a file;

    at least one second interface control device that ~~connect~~couples to the at least one first interface control device; and

4

a plurality of first disks each being ~~connect~~<u>coupl</u>ed to the at least one second interface control device,

wherein the at least one first interface control device ~~connect~~<u>couple</u>s to a second storage system having a plurality of second disks,

<u>the plurality of first disks and the plurality of second disks have different kinds of interfaces,</u>

a first storage region is set in the plurality of first disks,

a second storage region is set in the plurality of second disks,

the at least one first interface control device, upon receiving an access request from the computer, decides, according to property of a file designated by identification information contained in the access request received, as to which one of the first storage region and the second storage region to store data of the file,

when the data of the file is stored in the first storage region, the at least one second interface control device stores the data of the file in one of the plurality of first disks, and

when the data of the file is stored in the second storage region, the at least one first interface control device that received the access request from the computer controls such that the data of the file is transmitted to the second storage system through the at least one first interface control device that is ~~connect~~<u>coupl</u>ed to the second storage system.

9.   (original) A storage system according to claim 8, wherein the second storage system includes a third interface control device that

5

receives an access request having identification information of a file, and that accesses a storage region within the second storage region correlated to the identification information received to thereby access data of the file specified by the identification information.

10. (currently amended) A storage system according to claim 9, wherein the third interface control device sets a file system in the second storage region, and wherein, when the first interface control device receives an access request from the computer, and when data of a file designated by identification information contained in the access request is to be stored in the second storage region, the first interface control device controls to transmit the access request having the identification information correlated to the file to the third interface control device through the first interface control device ~~connect~~coupled to the second storage system.

11. (currently amended) A storage system according to claim 10, wherein the first interface control device ~~connect~~coupled to the second storage system receives an access request from the computer.

12. (original) A storage system according to claim 10, wherein the first interface control device migrates the data of the file from the first storage region to the second storage region through the third interface control device, based on property of files whose data is stored in the first storage region.

13. (original) A storage system according to claim 12, wherein, when the first interface control device migrates data of a file stored in the first storage region to the second storage region, the first interface control device transmits to the third interface control device an access request having identification information correlated to the file, and stores the identification information of the file received from the computer correlated with the file system set in the second storage region.

14. (original) A storage system according to claim 13, wherein

the first interface control device stores information concerning property of files and information concerning property of the first storage region and the second storage region, and decides, based on the information concerning property of files and the information concerning property of the first storage region and the second storage region, as to whether or not data of a file stored in the first storage region is to be migrated to the second storage region.

15. (currently amended) A storage system that is ~~connect~~coupled to a computer, the storage system comprising:

a first interface control device that receives from the computer an access request having identification information for designating a file;

a second interface control device that is ~~connect~~coupled to the first interface control device;

a plurality of first disks that are ~~connect~~coupled to the second interface control device;

a third interface control device that is ~~connect~~<u>coupl</u>ed to a second storage

system having a fourth interface control device that receives an access request

containing address information indicating a storage position of data and having a

plurality of second disks that are ~~connect~~<u>coupl</u>ed to the fourth interface control

device;

a first storage region existing in the plurality of first disks; and

a second storage region existing in the plurality of second disks; wherein

<u>the plurality of first disks and the plurality of second disks have different kinds</u>

<u>of interfaces,</u>

the first interface control device, upon receiving an access request for a file

from the computer, decides as to which one of the first storage region and the

second storage region to store data of the file according to property of the file

indicated by identification information contained in the access request received,

when the data of the file is stored in the first storage region, the second

interface control device stores the data of the file in one of the plurality of first disks,

and

when the data of the file is stored in the second storage region, the first

interface control device controls to transmit to the fourth interface control device

through the third interface control device the access request containing address

information for an address within the second storage region where the data of the file

is to be stored.

16.   (original) A storage system according to claim 15, wherein the third

8

interface control device is an interface control device that corresponds to a block I/O interface.

17.   (original) A storage system according to claim 16, wherein the first interface control device sets up a file system in the second storage region.

18.   (original) A storage system according to claim 17, wherein the first interface control device controls to migrate data of a file from the first storage region to the second storage region through the third interface control device based on property of the file whose data is stored in the first storage region.

19.   (original) A storage system according to claim 18, wherein, when the first interface control device migrates the data of the file stored in the first storage region to the second storage region, the first interface control device controls to transmit to the second storage system through the third interface control device an access request containing an address of a storage region in the second storage region that stores the data of the file, and changes relation between identification information of the file and information indicating the storage region that stores the data of the file.

20.   (currently amended) A storage system that is ~~connect~~coupled to a computer, the storage system comprising:

a first node that receives from the computer an access request containing

9

identification information of a file;

a second node that is ~~connect~~coupled to at least one first disk;

a third node that is ~~connect~~coupled to ~~at least one second disk and~~ a second storage system ~~that is connected to the~~ having at least one second disk and ~~has~~a file I/O interface control device that receives an access request having identification information of a file;

a fourth node that is ~~connect~~coupled to ~~at least one third disk and~~ a third storage system ~~that is connected to the~~ having at least one third disk and has a block I/O interface control device that receives an access request having address information of the file indicating a storage position of the file within the at least one third disk; and

a switch device ~~that mutually~~ coupled to the first node, the second node, the third node and the fourth node,

<u>wherein at least one of the first, second, and third disks has an interface which is different from the interfaces of the other disks, and</u>

wherein a first storage region exists in the at least one first disk, a second storage region exists in the at least one second disk, and a third storage region exists in the at least one third disk, and

the first node controls to store data of the file in one of the first storage region, the second storage region and the third storage region according to property of the file specified by identification information received from the computer.

21. (original) A storage system according to claim 20, wherein, when the

data of the file is stored in the first storage region, the second node controls to store the data of the file in a storage region in the at least one first disk.

22. (original) A storage system according to claim 20, wherein, when the data of the file is stored in the second storage region, the first node controls to transmit to the second storage system through the third node an access request containing identification information correlated to the file.

23. (original) A storage system according to claim 20, wherein, when the data of the file is stored in the third storage region, the first node controls to transmit to the third storage system through the fourth node an access request containing address information indicating a storage position of the data of the file.

24. (original) A storage system according to claim 20, wherein,

when the data of the file is stored in the first storage region, the second node controls to store the data of the file in a storage region in the at least one first disk,

when the data of the file is stored in the second storage region, the first node controls to transmit to the second storage system through the third node an access request containing identification information correlated to the file, and

when the data of the file is stored in the third storage region, the first node controls to transmit to the third storage system through the fourth node an access request containing address information indicating a storage position of the data of the file.

11

25.   (currently amended) A storage system comprising:

a file I/O interface control device; and

a plurality of disk pools, each having a plurality of disks,

wherein at least one of the plurality of disks of one disk pool has an interface

different from the interfaces of disks of another disk pool,

wherein the file I/O interface control device sets one of a plurality of storage

hierarchies defining storage classes, respectively, for each of LUs within the disk

pools, thereby forming a file system in each of the LUs, and the file I/O interface

control device migrates at least one of the files from one of the LUs to another one of

the LUs of an optimal storage class, based on static properties and dynamic

properties of each file.